# Author index


Abbotts, J., see Wilson, S. (949) 149
Algranati, I.D., see Nastri, H.G. (949) 65
Aoyama, T. and Takanami, M.
Supercoiling response of *E. coli* promoters with different spacer lengths (949) 311

Bell, D.H.
Characterization of the fluorescence of the antitumor agent, mitoxantrone (949) 132
Bester, A.J., see Van Helden, P.D. (949) 273

Casas-Finet, J.R., see Jhon, N.-I. (949) 189
Ceballos, I., Delabar, J.M., Nicole, A., Lynch, R.E., Hallewell, R.A., Kamoun, P. and Sinet, P.M.
Expression of transfected human CuZn superoxide dismutase gene in mouse L cells and NS20Y neuroblastoma cells induces enhancement of glutathione peroxidase activity (949) 58
Chang, W.-C., see Chen, H.-T. (949) 249
Chapel, S., see Montpied, P. (949) 79
Chatterjee, B., see Murty, C.V.R. (949) 27
Chen, H.-T., Pan, F.-M. and Chang, W.-C.
Purification of duck growth hormone and cloning of the complementary DNA (949) 249
Chinali, G., Nyssen, E., Di Giambattista, M. and Cocito, C.
Inhibition of polypeptide synthesis in cell-free systems by virginiamycin S and erythromycin. Evidence for a common mode of action of type B synergimycins and 14-membered macrolides (949) 71
Cocito, C., see Chinali, G. (949) 71
Couderc, J.L., see Montpied, P. (949) 79

Darkin, S.J., see Schneider, E. (949) 264
Dastugue, B., see Montpied, P. (949) 79
Delabar, J.M., see Ceballos, I. (949) 58
Diaz-Chico, J.C., Yang, K.-g., Yang, K.-y., Efremov, D.G., Stoming, T.A. and Huisman, T.H.J.
The detection of $\beta$-globin gene mutations in $\beta$-thalassemia using oligonucleotide probes and amplified DNA (949) 43
Di Giambattista, M., see Chinali, G. (949) 71
Doolittle, M.M. and Sirotkin, K.
Bacteriophage T2 and T4, dam$^+$ and *dam*$^h$ and *Eco dam*$^+$ methylation: preference at different sites (949) 240

Efremov, D.G., see Diaz-Chico, J.C. (949) 43

Forsman, M., see Jaurin, B. (949) 288
Fujii, T., see Izumi, S. (949) 181

Gerdes, H.-H. and Kindl, H.
Gene response upon illumination in forming mRNA encoding peroxisomal glycollate oxidase (949) 195
Gray, Jr., H.B., see Przykorska, A.K. (949) 16

Häggström, B., see Jaurin, B. (949) 288
Haino-Fukushima, K., see Sakai, N. (949) 224
Hallewell, R.A., see Ceballos, I. (949) 58
Hauser, C.R., see Przykorska, A.K. (949) 16
Huisman, T.H.J., see Diaz-Chico, J.C. (949) 43
Hüvös, P.E., Sanchez, J.A., Kramer, K.M., Karrer, K.M. and Wangh, L.J.
Two-dimensional DNA gel electrophoresis as a method for analysis of eukaryotic genome structure: evaluation using *Tetrahymena thermophila* DNA (949) 325

Ikeda, H., see Ohsawa, T. (949) 305
Ikeda, W., see Izumi, S. (949) 181
Itoh, T., Kumazaki, T., Sugiyama, M. and Otaka, E.
Molecular cloning and sequence analysis of the ribosomal 'A' protein gene from the archaebacterium, *Halobacterium halobium* (949) 110
Izumi, S., Sakurai, H., Fujii, T., Ikeda, W. and Tomino, S.
Cloning of mRNA sequence coding for sex-specific storage protein of *Bombyx mori* (949) 181
Izumi, S., see Sakai, N. (949) 224

Jalanko, A., Kallio, A., Ruohonen-Lehto, M., Söderlund, H. and Ulmanen, I.
An EBV-based mammalian cell expression vector for efficient expression of cloned coding sequences (949) 206
Jaurin, B., Forsman, M. and Häggström, B.
$\beta$-Lactamase genes of *Streptomyces badius, Streptomyces cacaoi* and *Streptomyces fradiae:* cloning and expression in *Streptomyces lividans* (949) 288
Jaworski, J., see Majewska, K. (949) 119
Jhon, N.-I., Casas-Finet, J.R., Maki, A.H. and Modrich, P.
Investigation of the complexes of *Eco*RI endonuclease with decanucleotides containing canonical and modified recognition sequences using fluorescence and optical detection of magnetic resonance spectroscopy (949) 189

Kallio, A., see Jalanko, A. (949) 206
Kamoun, P., see Ceballos, I. (949) 58
Kariya, Y., see Sato, N. (949) 35
Karrer, K.M., see Hüvös, P.E. (949) 325
Kaziro, Y., see Satoh, T. (949) 97
Kimura, A., see Sato, N. (949) 35
Kimura, S., see Sato, N. (949) 35

Kindl, H., see Gerdes, H.-H. (949) 195
Klutch, M., see Marcus-Sekura, C.J. (949) 213
Kobayashi, S., Ueda, K., Morita, J., Sakai, H. and Komano, T.
DNA damage induced by ascorbate in the presence of $Cu^{2+}$ (949) 143
Kolch, W., Schultz, A.M., Oppermann, H. and Rapp, U.R.
Preparation of *raf*-oncogene-specific antiserum with *raf* protein produced in *E. coli* (949) 233
Komano, T., see Kobayashi, S. (949) 143
Kramer, K.M., see Hüvös, P.E. (949) 325
Kumazaki, T., see Itoh, T. (949) 110

Lynch, R.E., see Ceballos, I. (949) 58

Maekawa, H., see Sakai, N. (949) 224
Mager, W.H.
Control of ribosomal protein gene expression (949) 1
Majewska, K., Szemraj, J., Płucienniczak, G., Jaworski, J. and Płucienniczak, A.
A new family of dispersed, highly repetitive sequences in bovine genome (949) 119
Maki, A.H., see Jhon, N.-I. (949) 189
Mancini, M.A., see Murty, C.V.R. (949) 27
Marcus-Sekura, C.J., Woerner, A.M., Klutch, M. and Quinnan, Jr., G.V.
Reactivity of an HIV *gag* gene polypeptide expressed in *E. coli* with sera from AIDS patients and monoclonal antibodies to *gag* (949) 213
Masuda, N., Watahiki, M., Tanaka, M., Yamakawa, M., Shimizu, K., Nagai, J. and Nakashima, K.
Molecular cloning of cDNA encoding 20 kDa variant human growth hormone and the alternative splicing mechanism (949) 125
Modrich, P., see Jhon, N.-I. (949) 189
Montpied, P., Sobrier, M.-L., Chapel, S., Couderc, J.L. and Dastugue, B.
20-Hydroxyecdysone induces the expression of one $\beta$-tubulin gene in *Drosophila* Kc cells (949) 79
Mori, S., see Sakai, N. (949) 224
Morita, J., see Kobayashi, S. (949) 143
Morris, J.I. and Varandani, P.T.
Characterization of a cDNA for human glutathione-insulin transhydrogenase (protein-disulfide isomerase/oxidoreductase) (949) 169
Murata, K., see Sato, N. (949) 35
Murty, C.V.R., Mancini, M.A., Chatterjee, B. and Roy, A.K.
Changes in transcriptional activity and matrix association of $\alpha_{2u}$-globulin gene family in the rat liver during maturation and aging (949) 27

Nagai, J., see Masuda, N. (949) 125
Nakafuku, M., see Satoh, T. (949) 97
Nakamura, S., see Satoh, T. (949) 97
Nakashima, K., see Masuda, N. (949) 125
Nastri, H.G. and Algranati, I.D.
Protein synthesis in polyamine-deficient bacteria during amino-acid starvation (949) 65
Nicole, A., see Ceballos, I. (949) 58
Nonaka, M., see Sato, N. (949) 35
Nyssen, E., see Chinali, G. (949) 71

Ogura, T., see Sakai, N. (949) 224
Ohsawa, T., Ikeda, H. and Senshu, T.
Effects of ganglioside $G_{M1}$ on DNA synthesis in isolated nuclei and on the activity of DNA polymerase $\alpha$ derived from S-phase HeLa cells (949) 305
Oppermann, H., see Kolch, W. (949) 233
Otaka, E., see Itoh, T. (949) 110

Pan, F.-M., see Chen, H.-T. (949) 249
Pedrini, A.M., see Tornaletti, S. (949) 279
Płucienniczak, A., see Majewska, K. (949) 119
Płucienniczak, G., see Majewska, K. (949) 119
Portugal, J. and Waring, M.J.
Assignment of DNA binding sites for 4′,6-diamidine-2-phenylindole and bisbenzimide (Hoechst 33258). A comparative footprinting study (949) 158
Przykorska, A.K., Hauser, C.R. and Gray, Jr., H.B.
Circular intermediates with missing nucleotides in the conversion of supercoiled or nicked circular to linear duplex DNA catalyzed by two species of BAL 31 nuclease (949) 16

Quinnan, Jr., G.V., see Marcus-Sekura, C.J. (949) 213

Ralph, R.K., see Schneider, E. (949) 264
Rapp, U.R., see Kolch, W. (949) 233
Reddy, T.R. and Suryanarayana, T.
Novel histone-like DNA-binding proteins in the nucleoid from the acidothermophillic archaebacterium *Sulfolobus acidocaldarius* that protect DNA against thermal denaturation (949) 87
Robbie, M.A., see Schneider, E. (949) 264
Roy, A.K., see Murty, C.V.R. (949) 27
Ruohonen-Lehto, M., see Jalanko, A. (949) 206
Russev, G., see Vassilev, L. (949) 138

Sakaguchi, M., see Sato, N. (949) 35
Sakaguchi, R. and Shishido, K.
Molecular cloning of a tetracycline-resistance determinant from *Bacillus subtilis* chromosomal DNA and its expression in *Escherichia coli* and *B. subtilis* (949) 49
Sakai, H., see Kobayashi, S. (949) 143
Sakai, N., Mori, S., Izumi, S., Haino-Fukushima, K., Ogura, T., Maekawa, H. and Tomino, S.
Structures and expression of mRNAs coding for major plasma proteins of *Bombyx mori* (949) 224
Sakurai, H., see Izumi, S. (949) 181
Sanchez, J.A., see Hüvös, P.E. (949) 325
Sato, N., Watanabe, K., Murata, K., Sakaguchi, M., Kariya, Y., Kimura, S., Nonaka, M. and Kimura, A.
Molecular cloning and nucleotide sequence of tuna growth hormone cDNA (949) 35
Satoh, T., Nakamura, S., Nakafuku, M. and Kaziro, Y.
Studies on *ras* proteins. Catalytic properties of normal and activated *ras* proteins purified in the absence of protein denaturants (949) 97

Schneider, E., Darkin, S.J., Robbie, M.A., Wilson, W.R. and Ralph, R.K.
Mechanism of resistance of non-cycling mammalian cells to 4′-[9-acridinylamino]methanesulphon-*m*-anisidide: role of DNA topoisomerase II in log- and plateau-phase CHO cells (949) 264
Schultz, A.M., see Kolch, W. (949) 233
Senshu, T., see Ohsawa, T. (949) 305
Shimizu, K., see Masuda, N. (949) 125
Shishido, K., see Sakaguchi, R. (949) 49
Sinet, P.M., see Ceballos, I. (949) 58
Sirotkin, K., see Doolittle, M.M. (949) 240
Sobrier, M.-L., see Montpied, P. (949) 79
Söderlund, H., see Jalanko, A. (949) 206
Stoming, T.A., see Diaz-Chico, J.C. (949) 43
Sugiyama, M., see Itoh, T. (949) 110
Suryanarayana, T., see Reddy, T.R. (949) 87
Szemraj, J., see Majewska, K. (949) 119

Takanami, M., see Aoyama, T. (949) 311
Taketo, A.
DNA transfection of *Escherichia coli* by electroporation (949) 318
Tanaka, M., see Masuda, N. (949) 125
Thomas, C.M.
Recent studies on the control of plasmid replication (949) 253
Tomino, S., see Izumi, S. (949) 181
Tomino, S., see Sakai, N. (949) 224
Tornaletti, S. and Pedrini, A.M.
Studies on the interaction of 4-quinolones with DNA by DNA unwinding experiments (949) 279
Trach, S.O., see Zimmerman, S.B. (949) 297

Ueda, K., see Kobayashi, S. (949) 143
Ulmanen, I., see Jalanko, A. (949) 206

Van Helden, P.D. and Bester, A.J.
Naturally occurring anti-DNA antibodies from systemic lupus erythematosus patients may be used to study gene expression in vitro (949) 273
Varandani, P.T., see Morris, J.I. (949) 169
Vassilev, L. and Russev, G.
Kinetics of replicon initiation during S phase of Chinese hamster ovary cells (949) 138

Wangh, L.J., see Hüvös, P.E. (949) 325
Waring, M.J., see Portugal, J. (949) 158
Watahiki, M., see Masuda, N. (949) 125
Watanabe, K., see Sato, N. (949) 35
Widen, S., see Wilson, S. (949) 149
Wilson, S., Abbotts, J. and Widen, S.
Progress toward molecular biology of DNA polymerase $\beta$ (949) 149
Wilson, W.R., see Schneider, E. (949) 264
Woerner, A.M., see Marcus-Sekura, C.J. (949) 213

Yamakawa, M., see Masuda, N. (949) 125
Yang, K.-g., see Diaz-Chico, J.C. (949) 43
Yang, K.-y., see Diaz-Chico, J.C. (949) 43

Zimmerman, S.B. and Trach, S.O.
Macromolecular crowding extends the range of conditions under which DNA polymerase is functional (949) 297